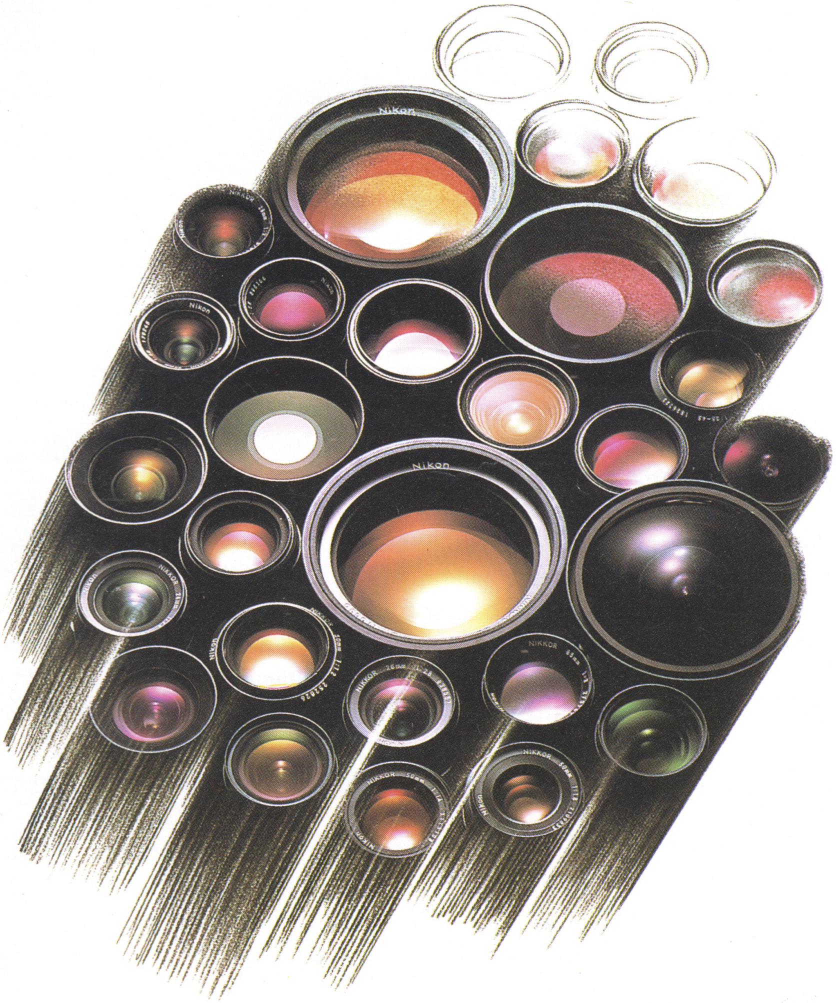
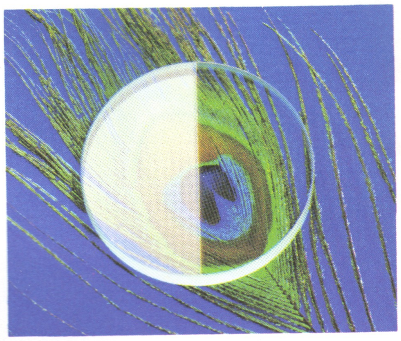
Nikkor
Lenses



What puts Nikkor ahead of the

Close-Range Correction System

Lenses generally function best in medium subject-to-camera distances or when set to infinity. As you get closer to your subject, image quality tends to deteriorate. This was the problem especially with large-aperture, short-focal-length lenses of the retrofocus type, as well as with large-aperture lenses of the symmetric type. Nikon's solution is its unique Close-Range Correction (CRC) system. With CRC, curvature has been strictly corrected at short distances in wideangle lenses,while spherical aberration at close shooting distances has been virtually eliminated in one Nikkor medium telephoto lens. This ensures that high resolution and image quality are maintained from infinity to the closest focusing distance.



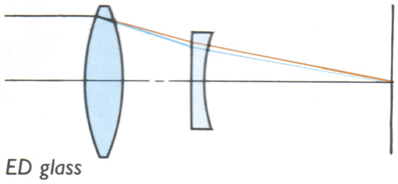
Right half of lens element has NIC; left half doesn't.

Nikon Integrated Coating

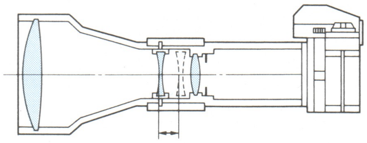
The bouncing of light off the surface of a lens and absorption of light into glass cause ghost images, flare, poor contrast and unfaithful color rendition. To solve these problems, Nikon applies multiple layers of microscopically thin coatings to the lens elements of all Nikkor and most Nikon Series E lenses. Unlike other lens manufacturers, however, Nikon **integrates** *its multilayer coating process, called Nikon Integrated Coating (NIC), into the design of* **every** *Nikkor lens, making sure that the right number of coatings is applied to each lens element and that this matches both lens type and glass used. The result is a sharp increase in image contrast and a corresponding reduction in ghost and flare.*

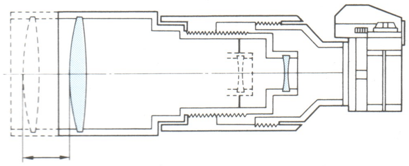
Specifications and designs are subject to change without notice.

rest?



Correction of chromatic aberration by use of ED glass element


Internal Focusing System


Conventional Focusing by Helicoid

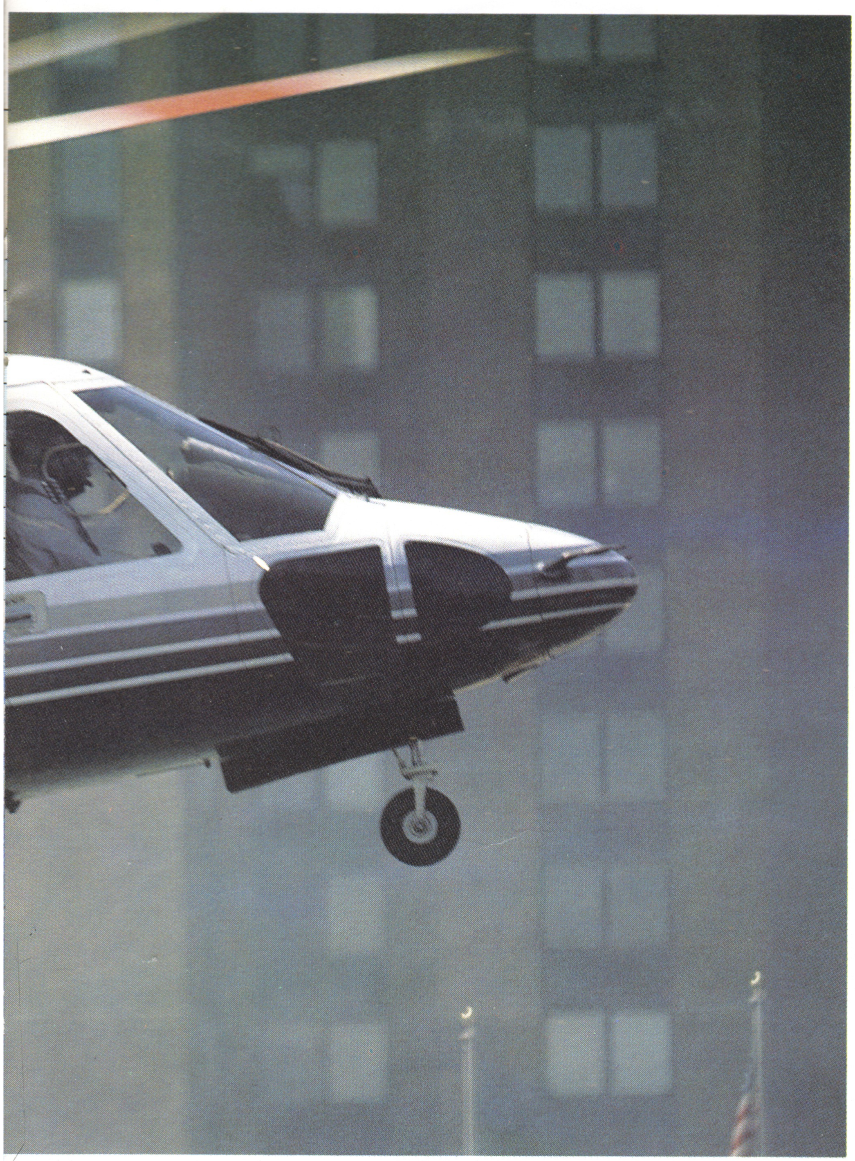
Extra-Low Dispersion Glass

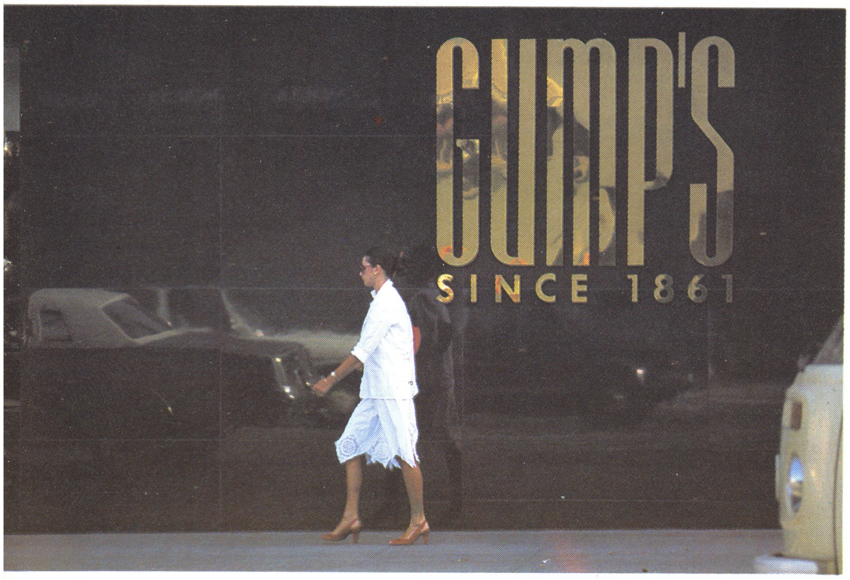
All photographs are made with light. With panchromatic B&W and color films, both blue and red light rays should be brought to focus at the same plane to prevent color 'fringing' and unsharpness. This is no longer a problem for normal and wideangle lenses, but with telephoto lenses, particularly those of 180mm or longer focal length, even the slightest variation in focus between red and blue light rays is magnified, making it virtually impossible for any ultra-telephoto lens to equal a 'shorter' lens in sharpness and color correction. Nikon has overcome this by developing a new type of optical glass: Extra-low Dispersion (ED) glass. The glass is as hard and scratch-resistant as other optical glasses, so it can be used even in exposed front and rear lens elements.

Internal Focusing

The conventional double helicoid focusing system makes it necessary for all lens groups to "move" either to the front or rear of the lens barrel during focusing, thus changing the length of the lens. This complicated and bulky mechanism necessitates the design of a large lens which in hand-held shooting can become unwieldy, especially at the crucial moment of focusing. To remedy this situation, Nikon developed its Internal Focusing (IF) system in which the lens elements move internally during focusing. This has resulted in a substantial reduction in the size and weight of a lens, making even hand-held shooting possible with super-telephotos. Focusing becomes a great deal faster and easier. The IF system likewise enables the design of lenses with a closer minimum focusing distance and the correction of image fall-off, a characteristic disadvantage of close-focusing telephotos.

Nikon




GUMP'S
SINCE 1861

105mm f/1.8

85mm f/2

85mm f/1.4

AF 80mm f/2.8
(For F3AF)

135mm f/2.8

135mm f/2

105mm f/2.5

200mm f/4

AF 200mm f/3.5 ED-IF (for F3AF)

180mm f/2.8 ED

300mm f/4.5

300mm f/4.5 ED-IF

400mm f/2.8 ED-IF

400mm f/5.6 ED-IF

600mm f/4 ED-IF

800mm f/8 ED-IF

Nikkor Lenses

20mm f/2.8

18mm f/3.5

15mm f/3.5

13mm f/5.6†

35mm f/1.4

28mm f/2.8

28mm f/2

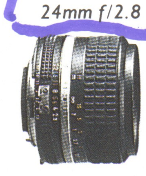
24mm f/2.8

24mm f/2

50mm f/1.8

50mm f/1.4

50mm f/1.2


35mm f/2.8

35mm f/2

300mm f/2.8 ED-IF

200mm f/2 ED-IF

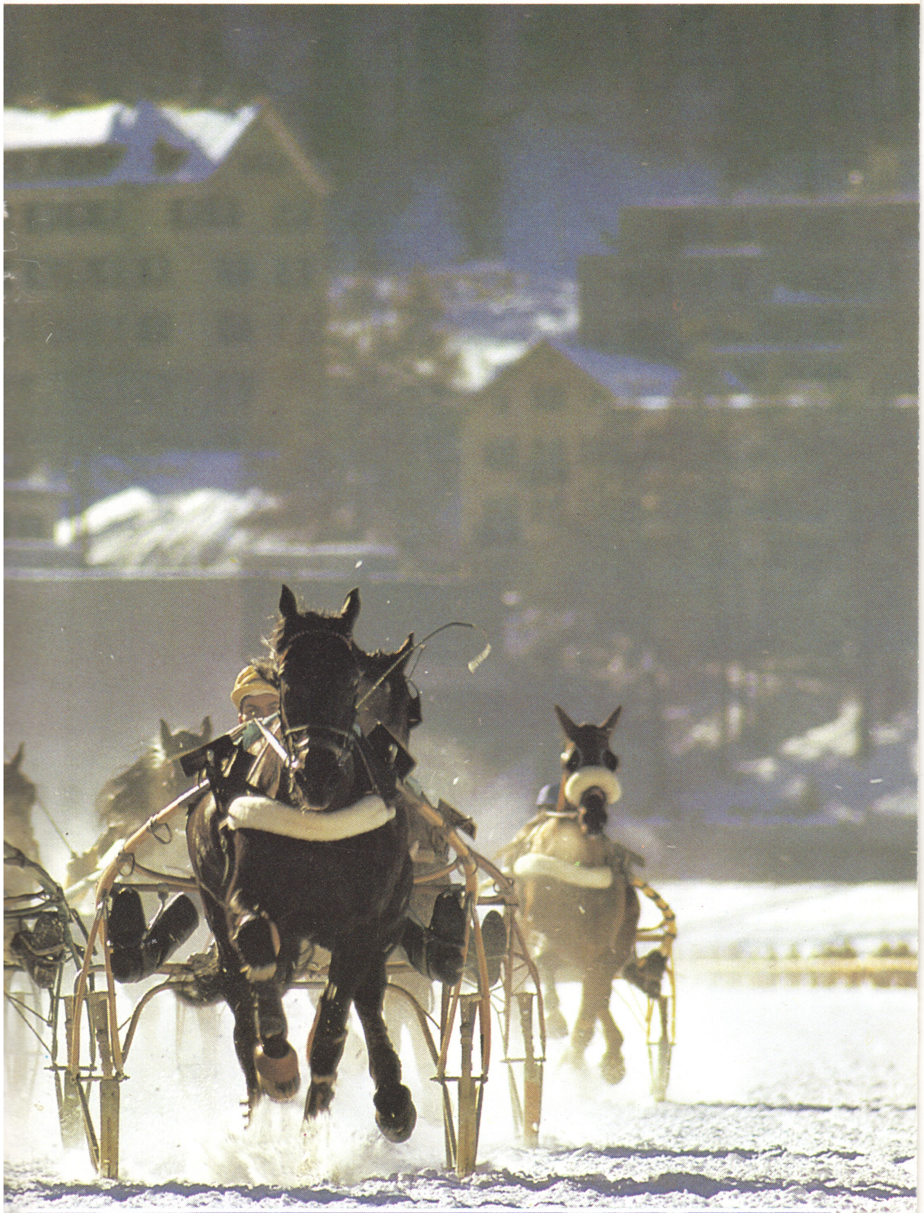
400mm f/3.5 ED-IF

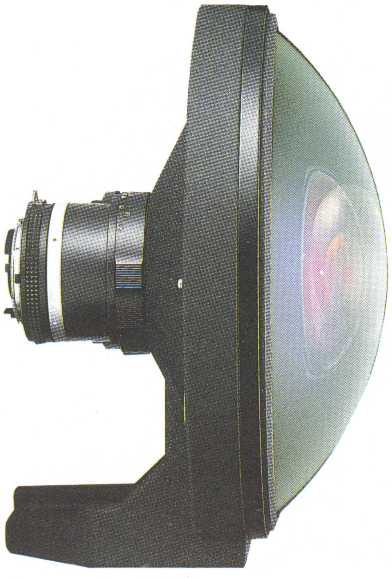
600mm f/5.6 ED-IF

800mm f/5.6 ED-IF

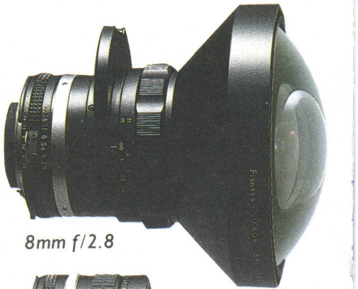
†: Manufactured upon receipt of order.

Nikkor Lenses





6mm f/2.8†



8mm f/2.8

16mm f/2.8

PC 35mm f/2.8

PC 28mm f/3.5

Micro 200mm f/4 IF

Micro 105mm f/2.8

Noct 58mm f/1.2

105mm f/4.5 UV

Medical 120mm f/4 IF

Micro 55mm f/2.8

E 135mm f/2.8

E 28mm f/2.8

TC-14A

TC-14B

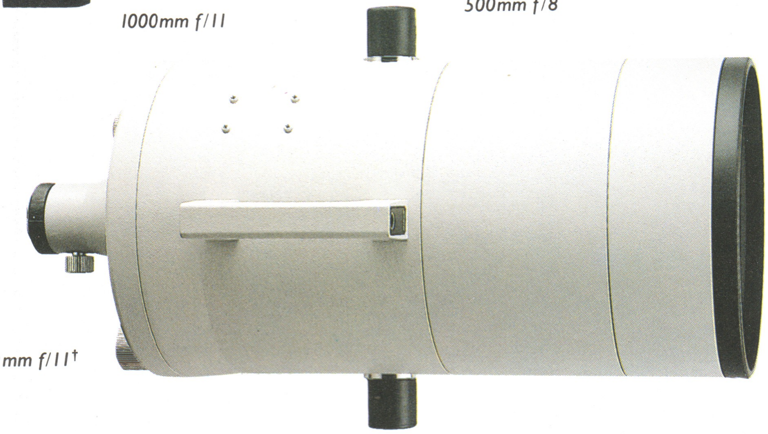
TC-201

TC-301

Nikkor Lenses

1000mm f/11

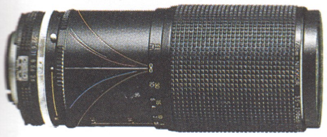
500mm f/8



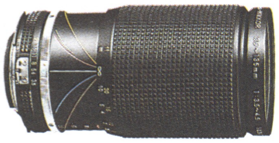
2000mm f/11†

35~105mm f/3.5~4.5

28~85mm f/3.5~4.5

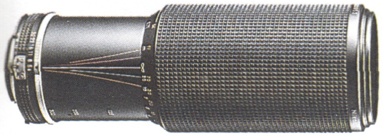


35~200mm f/3.5~4.5

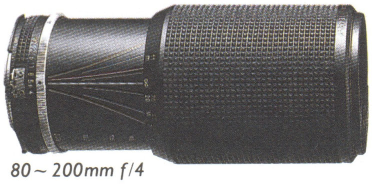


35~135mm f/3.5~4.5

35~70mm f/3.3~4.5



100~300mm f/5.6



80~200mm f/4

50~300mm f/4.5 ED

180~600mm f/8 ED†

†: Manufactured upon receipt of order.

The ultimate lens

Photography is a world as limitless and varied as creativity itself. That's why Nikon makes such an extensive range of Nikkor lenses, each with its own unique purpose. The following table provides

Specifications

Lens / Descriptions	Lens Construction (Groups-Elements)	Picture Angle	Minimum f/Stop	Closest Marked Focusing Distance m (ft.)	Filter (mm)
Wideangle					
13mm f/5.6[†]	12~16	118°	22	0.3 (1)	Provided
15mm f/3.5	11~14	110°	22	0.3 (1)	Provided
18mm f/3.5	10~11	100°	22	0.25 (0.85)	72
20mm f/2.8	9~12	94°	22	0.25 (0.85)	62
24mm f/2	10~11	84°	22	0.3 (1)	52
24mm f/2.8	9~9	84°	22	0.3 (1)	52
28mm f/2	8~9	74°	22	0.25 (0.9)	52
28mm f/2.8	8~8	74°	22	0.2 (0.7)	52
35mm f/1.4	7~9	62°	16	0.3 (1)	52
35mm f/2	6~8	62°	22	0.3 (1)	52
35mm f/2.8	5~5	62°	22	0.3 (1)	52
Normal					
50mm f/1.2	6~7	46°	16	0.5 (1.7)	52
50mm f/1.4	6~7	46°	16	0.45 (1.5)	52
50mm f/1.8	5~6	46°	22	0.6 (2)	52
Telephoto					
AF 80mm f/2.8[Δ]	4~6	30°20′	32	1 (3.5)	52
85mm f/1.4	5~7	28°30′	16	0.85 (3)	72
85mm f/2	5~5	28°30′	22	0.85 (3)	52
105mm f/1.8	5~5	23°20′	22	1 (3.5)	62
105mm f/2.5	4~5	23°20′	22	1 (3.5)	52
135mm f/2	4~6	18°	22	1.3 (4.5)	72
135mm f/2.8	4~5	18°	32	1.3 (4.5)	52
180mm f/2.8 ED	5~5	13°40′	32	1.8 (6)	72
200mm f/2 ED-IF	8~10	12°20′	22	2.5 (9)	Gelatine filter
AF 200mm f/3.5 ED-IF[Δ]	6~8	12°20′	32	2 (7)	62
200mm f/4	5~5	12°20′	32	2 (7)	52
300mm f/2.8 ED-IF	6~8	8°10′	22	4 (13)	39
300mm f/4.5	5~6	8°10′	32	3.5 (12)	72
300mm f/4.5 ED-IF	6~7	8°10′	32	2.5 (10)	72
400mm f/2.8 ED-IF	6~8	6°10′	22	4 (5)	52
400mm f/3.5 ED-IF	6~8	6°10′	22	4.5 (15)	122/39°
400mm f/5.6 ED-IF	6~7	6°10′	32	4 (15)	72
500mm f/4 ED-IF P	6~8	5°	22	5 (20)	39
600mm f/4 ED-IF	6~8	4°10′	22	6.5(25)	39
600mm f/5.6 ED-IF	6~7	4°10′	32	5.5 (20)	39
800mm f/5.6 ED-IF	6~8	3°	32	8 (3)	52
800mm f/8 ED-IF	7~9	3°	32	10 (35)	122/39°

▨	: Usable
🟧	: When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.
🟨	: Usable, but there is occasional vignetting.
🟥	: Usable, if the rear screw-in filter is removed.
—	: Not usable.

for your every need.

a brief introduction to each Nikkor lens. Despite the differences, all share something in common: Nikkor quality and dependability, and the Nikon commitment to perfection.

Lens Case	Lens Hood	Weight (oz.)	Dimensions (in.) ø × L (Lens extension from lens mount)	TC-201	TC-301	TC-14A	TC-14B	TC-16A
CL-14	Built-in	42.4	4.5 × 3.9 (3.5)	🟧	–	🟧	–	–
CL-17	Built-in	22.3	3.5 × 3.7 (3.3)	🟧	–	🟧	–	–
CL-37 CP-8	HK-9	12.4	3.0 × 2.9 (2.4)	🟧	–	🟩	–	–
CL-30S No.61	HK-14	9.2	2.6 × 2.1 (1.7)	🟧	–	🟧	–	–
CL-31S No.61 CP-8	HK-2	10.6	2.5 × 2.5 (2.0)	🟧	–	🟧	–	🟧
CL-30S No.61 CP-8	HN-1	8.8	2.5 × 2.2 (1.8)	🟧	–	🟧	–	🟧
CL-31S No.62 CP-8	HN-1	12.7	2.5 × 2.7 (2.3)	🟧	–	🟧	–	🟧
CL-30S No.62 CP-8	HN-2	8.8	2.5 × 2.1 (1.8)	🟧	–	🟧	–	🟧
CL-31S No.61 CP-8	HN-3	14.1	2.7 × 2.9 (2.4)	🟧	–	🟧	–	🟧
CL-30S No.61 CP-8	HN-3	9.9	2.5 × 2.3 (2.0)	🟧	–	🟧	–	🟧
CL-30S No.61 CP-8	HN-3	8.5	2.5 × 2.1 (1.8)	🟧	–	🟧	–	–
CL-34A No.61 CP-8	HS-12, HR-2	13.4	2.7 × 2.3 (1.9)	🟧	–	🟩	–	🟩
CL-34A No.61 CP-8	HS-9, HR-1	8.8	2.5 × 2.0 (1.6)	🟧	–	🟧	–	🟧
CL-30S No.61 CP-8	HR-4	5.1	2.5 × 1.4 (1.1)	🟧	–	🟧	–	🟧
CL-32S	HS-7, HR-5	13.8	2.7 × 3.1 (2.8)	🟧	–	🟧	–	🟧
CL-17 No.62 CP-9	HN-20	21.9	3.2 × 2.9 (2.5)	🟥	–	🟧	–	🟥
CL-31S No.61 CP-8	HS-10	10.9	2.5 × 2.4 (2.1)	🟧	–	🟧	–	🟧
CL-15S No.62 CP-9	Built-in	20.5	3.1 × 3.5 (3.2)	🟥	–	🟧	–	🟥
CL-32S No.62 CP-9	Built-in	15.4	2.5 × 3.1 (2.7)	🟧	–	🟩	–	🟧
CL-15S No.62 CP-9	Built-in	30.4	3.2 × 4.1 (3.7)	🟥	–	🟧	–	🟧
CL-32S No.62 CP-9	Built-in	15.4	2.5 × 3.6 (3.3)	🟩	–	🟧	🟧	🟧
CL-35A	Built-in	28.2	3.1 × 5.4 (5.1)	🟥	–	🟧	–	🟩
CL-63	Built-in	89.9	5.2 × 9.2 (8.9)	🟥	–	🟩	🟧	🟩
CL-35A	Built-in	30.7	3.1 × 6.2 (5.9)	🟩	🟧	🟧	🟧	–
CL-13 No.63 CP-9	Built-in	18.0	2.6 × 4.9 (4.6)	🟩	–	🟧	–	–
CL-63	Built-in	88.3	5.4 × 9.8 (9.5)	–	🟧	🟩	🟧	🟩
CL-20A	Built-in	42.4	3.1 × 8.0 (7.6)	–	🟧	🟩	🟧	–
CL-36	Built-in	37.4	3.1 × 7.9 (7.6)	–	🟧	–	🟧	–
CT-400 No.59	Built-in	180.3	6.4 × 15.2 (14.8)	🟧	🟧	–	🟧	–
CL-61A No.57	Built-in	98.9	5.3 × 12.0 (11.7)	–	🟧	🟩	🟧	–
CL-27A	Built-in	42.4	3.3 × 10.3 (10.0)	–	🟧	–	🟧	–
CT-500 No.59	Built-in	105.8	5.4 × 15.5 (15.1)	–	🟧	–	🟧	–
CT-601	Built-in	222.5	7.0 × 18.6 (18.3)	–	🟧	–	🟧	–
CL-62A No.57	Built-in	98.8	5.2 × 15.6 (15.3)	–	🟧	–	🟧	–
Trunk case	Built-in	190.8	6.4 × 21.8 (21.5)	–	🟧	–	🟧	–
CT-1203	Built-in	116.4	5.3 × 18.1 (17.8)	–	🟧	–	🟧	–

Δ: For F3AF
○: Front filter/rear filter.
†: Manufactured upon receipt of order.

Specifications

Descriptions Lens	Lens Construction (Groups-Elements)	Picture Angle	Minimum f/Stop	Closest Marked Focusing Distance m (ft.)	Filter (mm)
Reflex					
500mm f/8	6~6	5°	–	1.5 (5)	39
1000mm f/11	5~5	2°30′	–	8 (25)	39
2000mm f/11†	5~5	1°10′	–	18 (60)	Built-in
Zoom					
28~85mm f/3.3~4.5	11~15	74°~28°30′	22	0.8 (3)	62
35~70mm f/3.3~4.5	7~8	62°~34°20′	22	0.35 (1.2)	52
35~105mm f/3.5~4.5	12~16	62°~23°20′	22	0.27 (0.9)	52
35~135mm f/3.5~4.5	14~15	62°~18°	22	0.4 (1.4)	62
35~200mm f/3.5~4.5	13~17	62°~12°20′	22	0.3 (1)	62
80~200mm f/4	9~13	30°10′~12°20′	32	1.2 (4)	62
50~300mm f/4.5 ED	11~15	46°~8°10′	32	2.5 (8.5)	95
100~300mm f/5.6	10~14	24°20′~8°10′	32	0.71 (2.34)	62
180~600mm f/8 ED†	11~18	13°40′~4°10′	32	2.5 (8.5)	95
Fisheye					
6mm f/2.8†	9~12	220°	22	0.25 (0.9)	Built-in
8mm f/2.8	8~10	180°	22	0.3 (1)	Built-in
16mm f/2.8	5~8	180°	22	0.3 (1)	Provided
Special Purpose					
PC 28mm f/3.5*	8~9	74°	22	0.3 (1)	72
PC 35mm f/2.8*	7~7	62°	32	0.3 (1)	52
Noct 58mm f/1.2	6~7	40°50′	16	0.5 (1.7)	52
Micro 55mm f/2.8	5~6	43°	32	0.25 (0.9)	52
Micro 105mm f/2.8	9~10	23°20′	32	0.41 (1.34)	52
Micro 200mm f/4 IF	6~9	12°20′	32	0.71 (2.34)	52
Medical 120mm f/4 IF■	6~9	18°50′ (1/11X)	32	0.35 (1.1)	49▲
105mm f/4.5 UV	6~6	23°20′	32	0.48 (1.57)	52
Nikon Series E Lenses					
28mm f/2.8	5~5	74°	22	0.3 (1)	52
135mm f/2.8	4~4	18°	32	1.5 (5)	52
Teleconverters					
TC-201	5~7	–	–	–	–
TC-301	5~5	–	–	–	–
TC-14A	5~5	–	–	–	–
TC-14B	5~5	–	–	–	–
TC-16◆	5~5	–	–	–	–
TC-16A	5~5	–	–	–	–
Lensscope Converter★	5~3	–	–	–	–

🟧	: Usable.
🟥	: When used at smaller aperture than f/11 with high shutter speeds, there is occasional uneven exposure.
🟩	: Usable, but there is occasional vignetting.
🟪	: Usable, if the rear screw-in filter is removed.
—	: Not usable.

Lens Case	Lens Hood	Weight (oz.)	Dimensions (in.) ø × L (Lens extension from lens mount)	TC-201	TC-301	TC-14A	TC-14B	TC-16A
CL-39	Screw-in	29.7	3.5 × 4.6 (4.3)	🟩	–	🟩	🟪	–
CL-29	Built-in	67.1	4.7 × 9.5 (9.2)	🟩	🟪	🟩	🟪	–
Trunk case	–	618.1	10.3 × 23.5 (23.4)	🟩	🟨	–	🟨	–
CL-33S No.62	HK-16	18.0	2.6 × 3.8 (3.1)	🟨	–	🟨	–	–
CL-31S No.61	HN-2	9.0	2.5 × 2.7 (2.4)	🟨	–	🟨	–	–
CL-33S No.63	HK-11	18.0	2.5 × 3.7 (3.4)	🟨	–	🟨	–	–
CL-15S No.62	HN-22	21.2	2.7 × 4.4 (4.1)	🟨	–	🟨	–	–
CL-13A No.63	HK-15	25.9	2.7 × 5.0 (4.6)	🟨	–	–	–	–
CL-35A No.63	HN-23	28.6	2.9 × 6.4 (6.1)	🟨	–	🟩	–	–
CL-64 CE-2	HK-5	68.9	3.9 × 9.7 (9.4)	🟨	–	🟨	–	–
CL-40	HN-24	32.8	2.9 × 8.1 (7.8)	🟨	–	–	🟨	–
CZ-1860	HN-16	127.1	4.1 × 15.8 (15.6)	–	🟨	–	🟨	–
Trunk case	–	183.7	9.3 × 6.7 (6.3)	🟨	–	🟨	–	🟨
CL-11	–	38.9	4.8 × 5.5 (5.0)	🟨	–	🟨	–	🟨
CL-30S No.61 CP-8	–	11.7	2.5 × 2.6 (2.2)	🟨	–	🟨	–	🟨
CL-34A No.62	HN-9	13.4	3.1 × 2.7 (2.5)	–	–	–	–	–
CL-34A No.61	HN-1	11.3	2.4 × 2.6 (2.4)	–	–	–	–	–
CL-34A No.61 CP-8	HS-7, HR-2	16.4	2.9 × 2.5 (2.0)	🟨	–	🟨	–	🟩
CL-31S No.61 CP-8 CL-33S● No.62●	HN-3	10.2	2.5 × 2.8 (2.4)	🟨	–	🟨	–	🟨
CL-33S CP-9	HS-14	18.2	2.6 × 3.6 (3.3)	🟨	–	🟨	–	🟨
CL-36	Built-in	28.3	2.6 × 7.1 (6.8)	–	🟨	🟩	🟨	–
Leatherette compartment case	–	31.4	3.9 × 5.9 (5.6)	–	–	–	–	–
CL-15S No.63 CP-9	–	18.0	2.7 × 4.6 (4.3)	–	🟨	–	🟨	–
CL-30S No.61 CP-8	HR-6	5.5	2.5 × 1.8 (1.4)	🟨	–	🟨	–	🟨
CL-32S No.62 CP-9	Built-in	14.0	2.5 × 3.5 (3.2)	🟨	–	🟨	–	🟨
CL-30S No.61 CP-8	–	8.1	.25 × 2.0	–	–	–	–	–
CL-33S No.62 CP-9	–	9.9	2.5 × 4.5	–	–	–	–	–
CL-30S No.61	–	5.1	2.6 × 1.0	–	–	–	–	–
CL-30S No.61	–	5.8	2.6 × 1.3	–	–	–	–	–
No.61	–	10.1	3.5 × 0.8	–	–	–	–	–
No.61	–	5.3	2.6 × 0.8	–	–	–	–	–
No.61	–	7.1	2.6 × 2.2	–	–	–	–	–

· : Preset. Not usable with the EM.
● : w/PK-13
▲ : Close-up attachment lens size.
■ : Power source: Power is supplied only by AC Power Unit LA-2 or DC Power Unit LD-2.
◆ : Mounted between the lens and a Nikon F3AF camera body with the DX-I AF Finder attached.
★ : A telescope when used with Nikkor and Nikon Series E lenses.
† : Manufactured upon receipt of order.

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